



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, D.C. 20231
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/992,211	11/16/2001	Peter M. Bonutti	BON-2950-2	7013

7590 04/23/2002

TAROLLI, SUNDHEIM, COVELL, TUMMINO & SZABO
Suite 1111
526 Superior Avenue
Cleveland, OH 44114-1400

EXAMINER

THALER, MICHAEL H

ART UNIT	PAPER NUMBER
----------	--------------

3731

DATE MAILED: 04/23/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/992,211

Applicant(s)

Bonutti et al.

Examiner

Michael Thaler

Art Unit

3731



-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on Mar 20, 2002.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 57-79 is/are pending in the application.
- 4a) Of the above, claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 57-63, 65-71, 74, and 77 is/are rejected.
- 7) ☒ Claim(s) 64, 72, 73, 75, 76, 78, and 79 is/are objected to.
- 8) ☐ Claims _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are objected to by the Examiner.
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

- 13) ☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).
- a) ☐ All b) ☐ Some* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- *See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

- 15) ☒ Notice of References Cited (PTO-892) 18) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 16) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 19) ☐ Notice of Informal Patent Application (PTO-152)
- 17) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s). 3 20) ☐ Other:

Art Unit: 3731

Applicant's election without traverse of the species of figures 33 and 34 in Paper No. 5 is acknowledged.

Claim 77 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. In lines 1-2 and 5, there is no antecedent basis for "said passage in said sheath". Note that claim 77 depends from claim 73.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 57-63 and 66-71 are rejected under 35 U.S.C. 103(a) as being unpatentable over Bonutti (5,295,994). Bonutti, in figure 14, shows an expandable cannula 162 comprising a tubular sheath which is expandable and which has an oval cross-section (col. 2,

Art Unit: 3731

lines 24-27 and col. 10, lines 56-65). It would have been obvious to make the expandable cannula 162 resiliently expandable since Bonutti indicates that the bladder of the invention may be formed of elastomeric material (col. 4, lines 3-8). As to claim 61, the expandable cannula 162 is inherently expandable by inserting a member therein. As to claims 62 and 71, the passage within outer wall 164 may be considered to be the claimed passage. As to claims 63 and 66, Bonutti shows an array of wires or filaments 172.

Claims 57-61, 65 and 74 are rejected under 35 U.S.C. 102(b) as being anticipated by Jackson et al. (4,716,901). Jackson et al., in figure 4, show a cannula comprising a sheath 28 which is resiliently expandable and which has an oval cross-section. As to claim 59, the expanded condition of the Jackson et al. sheath 28 is considered to be the condition in which it is expanded only slightly as compared to the condition shown in figure 4. In this slightly expanded condition, the sheath still has an oval cross section. As to claim 61, the passage in the Jackson et al. sheath 28 (that is, the open space within the sheath) is inherently engagable by a member having an oval cross section. As to claims 65 and 74, the Jackson et al. cannula has a pointed end portion 20.

Claims 64, 72, 73, 75, 76, 78 and 79 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Art Unit: 3731

Claim 77 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, 2nd paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Note col. 6, lines 4-6 of Hildwein et al. (5,490,843)

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Thaler whose telephone number is (703) 308-2981. The examiner can normally be reached Monday to Friday.

mht
April 18, 2002
FAX (703) 305-3590



MICHAEL THALER
PRIMARY EXAMINER
ART UNIT 3731